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APPLICATION NO.). FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/615,398	C	07/13/2000	Andrew C. Gallagher	80839DMW	3800		
1333	7590	11/03/2004	×	EXAM	EXAMINER		
PATENT LE	EGAL ST	ΓAFF	GENCO, BRIAN C				
EASTMAN K	ODAK (COMPANY					
343 STATE S	TREET		ART UNIT	PAPER NUMBER			
ROCHESTER	2. NY 1	4650-2201	2615				

DATE MAILED: 11/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No		Applicant(s)						
	09/615,398		GALLAGHER ET A	AL.					
Office Action Summary	Examiner		Art Unit						
	Brian C Genco		2615						
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address								
Period for Reply		DIDE A MONTHY	C) 50014						
A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).		rever, may a reply be time nimum of thirty (30) days s SIX (6) MONTHS from to to become ABANDONED	ely filed will be considered timely he mailing date of this co	/. ommunication.					
Status									
1) Responsive to communication(s) filed on	·								
,	is action is non-fir								
3) Since this application is in condition for allow				e merits is					
closed in accordance with the practice under	Ex parte Quayle,	1935 C.D. 11, 45	3 O.G. 213.						
Disposition of Claims									
4)⊠ Claim(s) <u>1-10,12-20,22-47 and 49-57</u> is/are p	pending in the app	lication.							
4a) Of the above claim(s) is/are withdr									
5) Claim(s) 1-8,10,12-20,22-47 and 49-56 is/are	e allowed.								
6)⊠ Claim(s) <u>9 and 57</u> is/are rejected.	• • • • • • • • • • • • • • • • • • • •								
7) Claim(s) is/are objected to.									
8) Claim(s) are subject to restriction and	or election requir	ement.							
Application Papers									
9)☐ The specification is objected to by the Examin	ner.								
10)⊠ The drawing(s) filed on <u>07 May 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the	Examiner. Note th	e attached Office	Action or form P7	ΓO-152.					
Priority under 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure * See the attached detailed Office action for a li	ents have been recents have been recents documents heau (PCT Rule 17.	eived. eived in Application nave been receive 2(a)).	on No ed in this National	Stage					
Attachment(s)									
Attachment(s) 1) Notice of References Cited (PTO-892)	4) [Interview Summary	(PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	ate	0.452)					
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0 Paper No(s)/Mail Date 	, o,	Notice of Informal P Other:	atent Application (PT)	U-15Z)					
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Allowable Subject Matter

Claims 3-6, 10, 12-20, 22, 25-34, 36-38, 41-47, 51, 54, 55, and 56 are deemed allowable as indicated in the previous Office actions.

Claims 1, 2, 7, 8, 23, 24, 35, 39, 40, 49, 50, 52, and 53 are herein deemed allowable over the prior art of record, the reasons for allowance are as follows.

Claims 1 and 23 have been amended to include the limitation "said image sensing device having a color filter array of at least three different colors overlying said photosites, said standard and non-standard photosites being associated with each of said colors". The prior art of record does not disclose nor fairly suggest the particular combination of limitations from claims 1 and 23 wherein said image sensing device having a color filter array of at least three different colors overlying said photosites, said standard and non-standard photosites being associated with each of said colors. Examiner is interpreting this limitation to mean that on the image sensing device there has to be non-standard photosites of each of the three colors as well as standard photosites of each of the three colors. Examiner notes that while it would have been obvious to one skilled in the art to have added a Bayer color filter to the image sensor of Nayar this would have resulted in all of the standard photosites being one color and the non-standard photosites being each of the three colors. Further, Examiner notes that it would have been obvious to one skilled in the art to have added a color filter to Park as noted in the rejection of claims 57 and 9 bellow, however, it would not have been obvious to have modified Park with Hasegawa to provide for a controller for switching between an expanding mode and a normal drive mode since the resolution of Park is not effected by the expanding mode.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 57 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over (USPN 5,714,753 to Park).

In regards to claim 57 Park discloses an image capture system for generating an extended effective dynamic range from a signal provided by an image sensor, said image capture system comprising:

an image sensing device having a uniform two-dimensional array of photosites, including standard photosites with a predetermined response to a light exposure and non-standard photosites with a predetermined response to the same light exposure (e.g., Fig. 3);

an optical section exposing the image sensing device to image light, thereby causing the image sensing device to generate an image signal (e.g., the optical section is inherent with an image sensor; further, note the disclosure of the microlenses on column 2, lines 54-57); and

a processing section expanding the response of the standard photosites to increased light exposures by utilizing the image signals from neighboring non-standard photosites and

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expanding the response of the non-standard photosites to decreased light exposure by utilizing the image signals from neighboring standard photosites (e.g., column 3, lines 5-48).

Park does not disclose nor preclude that said image sensing device having a color filter array of at least three different colors overlying said photosites, said standard and non-standard photosites being associated with each of said colors.

Examiner notes that it is extremely well known in the art to provide a color filter so as to produce a color image. Official notice is taken. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have added a color filter to Park's invention in order to generate a color image. Examiner further notes that it is extremely well known to use a Bayer color filter so as to generate more data for the green color plane. Official notice is taken. Therefore it would have been obvious to one of ordinary skill in the art at the time of the invention to have used a Bayer color filter in order to generate more data for the green color plane. Examiner notes that in applying the Bayer color filter to Park's invention the standard and non-standard photosites would be associated with each of said colors.

In regards to claim 9 Examiner notes with Park's invention having a color filter the neighboring non-standard photosites are of the same color as standard photosite being processed by the processing section.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian C. Genco who can be reached by phone at 703-305-7881 or by fax at 703-746-8325. The examiner can normally be reached on Monday thru Friday 8:30am to 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Christensen can be reached on 703-308-9644. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service office whose telephone number is 703-308-4357.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

ANDREW CHRISTENSEN
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian C Genco Examiner Art Unit 2615

October 27, 2004

ANDREW CHRISTENSEN
SUPERVISORY PATENT EXAMINER

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